

ACCESSION NR: AT3007248

S/2952/63/000/000/0011/0018

AUTHORS: Starodubtsev, E. S. V.; Ablyayev, Sh. A.; Yermatov, S. Ye; Pulatov, U. U.

TITLE: Changes in adsorptivities of silicagels and zeolites under the action of high-frequency discharges

SOURCE: Radiatsion. effekty* v tverd. telakh. Tashkent, Izd-vo AN UzbSSR, 1963, 11-18

TOPIC TAGS: adsorption, adsorptivity, silicagel, zeolite, electric discharge, slow electron, gamma ray, cosmic radiation, temperature effect, isotherm, high-frequency discharge

ABSTRACT: The paper reports the basic results of an experimental investigation of the effect of fluxes of slow electrons on the adsorption properties of synthetic zeolites and silicagels. Test objects were: Silicagel Mark KSK and synthetic zeolites of the types 4 \AA (NaA) Gor'kovskoye, CaA 5 \AA Gor'kovskoye, 13x(Nax) Gor'kovskoye, 4 \AA (NaA) Groznoye, and CaA 5 \AA Groznoye. High-frequency electric discharges served as slow-electron sources. The changes in the adsorptional properties were investigated experimentally by the adsorption of gases by adsorbents measured by manometric tubes. The specimen adsorbent, contained in a glass ampoule (A), is

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first heated to 350-400°C under continuous evacuation. The A is then filled with the test gas from a reservoir V, following the evacuation of the air from the entire system down to 10^{-3} to 10^{-4} mm Hg. The gas is permitted to enter the adsorbent container A up to a specified pressure, whereupon A is soldered tight and thus cut off from the vacuum equipment and held at room temperature until the establishment of an equilibrium pressure, which is of the order of 10^{-1} mm Hg. The instrument is then exposed to the action of the high-frequency discharges. Zeolites: Test results, plotted in the form of curves, show that all types of zeolites gain in adsorptional capacity under the effect of slow electrons. These changes increase with increasing irradiation time up to a specified limit and then achieve saturation after about 6 to 10 min. Optimal results were obtained with the Gor'kovskoye zeolites of the types 13x(Nax) and CaA 5Å. Isotherms of ordinary and induced adsorption of zeolites with reference to dry air at temperatures of 20 and -196°C were derived. Silicagels: Exposure to the discharges increased the adsorptivity of silicagel substantially. Saturation at any given oscillatory power was achieved after 8-15 minutes. Isotherms of ordinary and induced adsorption of silicagel with respect to dry air in the 10^{-1} to 10^{-3} -mm-Hg range were obtained at temperatures of 0, +30, +60, and -196°C. Adsorbent temperature exerted a noticeable effect on the magnitude of both ordinary and induced adsorption. The adsorptivity of silicagel and zeolites increases with decreasing temperatures even without irradiation.

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However, the changes are substantially greater under irradiation, and the adsorption is much more permanent. The effect of lower temperatures is stronger on zeolites than on silicagels. Some light is shed on the effect of slow electrons and gamma-ray radiational effects on the surface layer and into the depth of an adsorbent. Orig. art. has: 7 figures.

ASSOCIATION: none

SUBMITTED: 00 DATE ACQ: 14Oct63 ENCL: 00

SUB CODE: PH, EE, MA NO REF SOV: 006 OTHER: 000

Card 3/3

PULATOV, U. Yu.; PUZYREV, Yu. V.; IVANOV, S. A.; ABRARKHODZHAYEV, A.

Construction of irrigation flumes of precast reinforced concrete
in the Golodnaya Steppe. Vop. gidr. no.5:99-106 '62.
(MIRA 15:10)

(Golodnaya Steppe--Irrigation canals and flumes)
(Precast concrete construction)

PULATOV, U. Yu.; PAK, S.D.; OSTROVSKIY, E.M.

Field experiments in impact compaction carried out in the canal
M-2. Mat. po proizv. sil. Uzb. no.15:221-231 '60.

(MIRA 14:8)

1. Sredneaziatskiy nauchno-issledovatel'skiy institut irrigatsii,
Tashkent.

(Golodnaya Steppe--Irrigation canals and flumes)
(Soil stabilization.)

PULATOV, U.Yu., inzhener; IBRAGIMOV, M.I., inzhener.

More rapid method of determining soil moisture. Gidr.stroi.24
no.7:43-44 '55. (MLRA 9:1)
(Soil moisture)

SOV-98-58-2-13/21

AUTHOR: Pulatov, U.Yu., Candidate of Technical Sciences

TITLE: The Method of Establishing the Degree of Compressability of Coarse Fragmentary Soils (O sposobe opredeleniya stepeni up-lotnyayemosti krupnooblomochnykh gruntov)

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1958, Nr 2, pp 47-48 (USSR)

ABSTRACT: The packing of the soil to a certain density is important in the erection of dams. When constructing the Orto-Tokoy dam, the author applied a method which permitted the establishment of all the values of density attained at the given point during the packing process. When the material was prepared for rolling, holes of 20 ~ 25 cm in diameter were dug at certain points of the layer. Beginning at the surface, metal plates (marks), 1 mm thick and 50 mm in diameter, were then placed at 7 ~ 10 cm intervals into the walls of the holes. Then the holes were filled in. The places, where the surface plates were set, were marked with lime or chalk. The leveling was then carried out. When the packing work was finished, the plates were dug out to establish the volume weight which was been exerted by the usual method. The data received, enabled the author to compute the coefficient of the packing of

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SOV-98-58-2-13/21

The Method of Establishing the Degree of Compressability of Coarse Fragmentary Soils

the layers. Knowing the coefficients, it is easy to obtain the initial and intermediate values.
There is 1 Soviet reference.

1. Soils--Density
2. Soils--Test results

Card 2/2

PULATOV, U. Yu., inzhener.

The use of open-pit chain-bucket excavators for the construction
of irrigation and drainage canals. Gidr. i mel 8 no. 11:42-45
N '56. (MLRA 10:4)
(Excavating machinery) (Irrigation canals and flumes)

PULATOV, U.Yu., kandidat tekhnicheskikh nauk.

Cave-in method of building the dam at the Kelif Reservoir of the Kara-Kum Canal. Gidr. stroi. 26 no. 5:33-36 My '57. (MLRA 10:6)
(Kara Kum Canal)

PULATOV U. Yu.
SHVAB, Z.I., inzhener; PULATOV, U.Yu., inzhener.

Building the dam of the Orto-Tokoy Reservoir. Gidr.stroi 23 no.7:
6-8 '54. (MLRA 7:11)
(Orto-Tokoy Reservoir--Dams) (Dams--Orto-Tokoy Reservoir)

PULATOV, V.N., student VI kursa

Vitamin B₁₂ content of the blood serum in tuberculous patients
depending on the season. Med. zhur. Uzb. no.12:48 D '61.
(MIRA 15:2)
1. Iz Namanganskogo filiala Uzbekskogo nauchno-issledovatel'skogo
tuberkuleznogo instituta.
(TUBERCULOSIS) (C₁ANOCOBALAMINE)

AMI' ZADE, Z.M.; PULATOV, Ya.G.

Experience in the use of the phase titer growth reaction for the
indication of typhoid fever pathogens in the water of open water
reservoirs. Zhur. mikrobiol., epid. i immun. 41 no.9:93-96 S '64.
(MIRA 18:4)

1. I Moskovskiy ordena Lenina meditsinskiy institut imeni Sechenova.

PULATOVA, E.Ye., kand.med.nauk

Dynamics of morphological and some histochemical changes in
spleen and lymphatic nodes after general X-ray exposure. Vop.
radiobiol. [AN Arm. SSR] 1:79-85 '60. (MIRA 15:3)

1. Iz Sektora radiobiologii AN Armyanskoy SSR.
(X RAYS--PHYSIOLOGICAL EFFECT)

PAREYCHVILLI, Ye.A., starshiy nauchnyy sotrudnik; TULATOVA, S.Ye., kand.med.nauk; KHEYFETS, Yu.B., mladshiy nauchnyy sotrudnik; BATIKYAN, I.G., mladshiy nauchnyy sotrudnik; SAAKYAN, D.G., starshiy laborant

Changes in some metabolic processes of the blood cells and hemopoietic organs following whole-body X-ray irradiation.
Vop. radiobiol. AN ARM. SSR 2:63-74 '61.

Changes in the blood and hemopoietic organs shortly after castration and following whole-body X-ray irradiation. Ibid.:75-88
(MIRA 18:4)

POLATOVA, E.Ye., kand.med.nauk; KHEYFETS, Yu.S., mladshiy nauchnyy sotrudnik;
SARKYAN, Dzh.G., starshiy laborant

Phagocytosis and change in the glycogen content of blood cells and
hemopoietic organs in irradiated animals. Vop. radiobiol. AN ARM.
SSR 2:113-120 '61.

(MIRA 18:4)

PAREYSHVILI, Ye.A.; PULATOVA, E.Ye.

Changes in the blood cells and hematopoietic organs in total
X-ray irradiation. Med.rad. no.5:67-70 '61. (MIR 14:11)

1. Iz sekta radiobiologii AN Armyanskoy SSR (zav. - starshiy
nauchnyy sotrudnik K.A. Kyandaryan).
(NUCLEIC ACIDS) (BLOOD CELLS--RADIOGRAPHY)
(HEMATOPOIETIC SYSTEM—RADIOGRAPHY)

271220

14563
S/739/60/001/000/005/015
E020/E185

AUTHOR: Pulatova, E.Ye., Candidate of Medical Sciences

TITLE: The course of the morphological and certain histochemical changes in the spleen and lymph nodes after general X-irradiation

SOURCE: Akademiya nauk Armyanskoy SSR. Sektor radiobiologii. Voprosy radiobiologii. v.1, 1960, 79-85

TEXT: The presence of ribonucleic and deoxyribonucleic acid, inorganic and organic iron was determined by appropriate histochemical methods in preparations of the lymph nodes and spleen of white mice removed at intervals up to 72 hours after subjection to a lethal dose (800 r) of X-irradiation. In the spleen pyknosis of the nuclei of the lymphocytes was observed one hour after irradiation; after 3 hours the confines of the Malpighian bodies became indistinct and the lymphocytes in the centres were mainly destroyed. Accumulations of inorganic iron appeared at the same time in the reticular cells. After 12 hours nearly all the lymphocytes were destroyed, and many macrophages containing fragments of cells were present; plasma cells rich in ribonucleic

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The course of the morphological and ... S/739/60/001/000/005/015
E020/E185

acid were accumulating around the central arteries. The accumulation of inorganic iron continued up to 48 hours. Similar changes were noted in the lymphocytes and other cellular elements of the peritoneal lymph nodes.

The present paper was reported at the Scientific Session of the Section (April 5 and 6, 1960).

ASSOCIATION: Sektor radiobiologii AN ArmSSR
(Radiobiological Section, AS Arm.SSR)

Card 2/2

BULAKVA, E. YE., KHEYFETS, YU. S., PARENTVILII, YE. A.

"Changes in the Cells of the Blood and Hematogenic Organs During the Action of Ionizing Radiation."

report submitted for the First Conference on the problems of Cyto and Histochemistry, Moscow, 19-21 Dec 1960.

Division of Radiobiology of the Academy of Sciences Armenian SSR, Yerevan.

PULATOVA, E.Ye., kand.med.nauk

Changes in the ribonucleic acid distribution of the liver following
irradiation with a radioactive iron isotope (Fe59). Trudy Stal.
med.inst. 27:63-66 '57 (MIRA 11:9)

1. Iz kafedry gistologii i biokhimii Stalingradskogo medinstituta.
(IRON--ISOTOPES)
(NUCLEIC ACIDS)
(LIVER)

BERKINBLIT, M.B.; BURSHTEYN, E.A.; L'VOV, K.M.; PULATOVA, N.K.;
KOZOVA, L.V.; FRANK, G.M., red.; PLYSHEVSKAYA, Ye.G.,
red.

[Cell biophysics] Biofizika kletki; sbornik statei pod
red. G.M. Franka. Moskva, Nauka, 1965. 294 p
(MIRA 19:1)

1. Akademiya nauk SSSR. Institut biologicheskoy fiziki.
2. Chlen-korrespondent AN SSSR (for Frank).

PULATOVA, M.K.; BURSHTEYN, E.A.; KAYUSHIN, L.P.

Change in the localization of unpaired electrons in irradiated
proteins under the action of infrared radiation. Dokl. AN SSSR
149 no.6:1432-1434 Ap '63. (MIRA 16:7)

1. Institut biologicheskoy fiziki AN SSSR. Predstavлено
академиком N.M.Sisakyanom.
(Infrared rays--Physiological effect) (Proteins)

PULATOVA, M.K.; ROGULENKOVA, V.N.; KAYUSHIN, L.P.

Characteristics of the spectra of electronic paramagnetic resonance of synthetic polypeptide films and proteins. Biofizika
6 no.5:548-555 '61. (MIRA 15:3)

1. Institut biologicheskoy fiziki AN SSSR, Moskva,
(PEPTIDES—SPECTRA)
(PARAMAGNETIC RESONANCE AND RELAXATION)
(PROTEINS)
(RADIATION-PHYSIOLOGICAL EFFECTS)

KAYUSHIN, L.P.; KOFMAN, Ye.B.; GOLUBEV, I.N.; L'VOV, K.M.; PULATOVA,
M.K.

Transfer of energy released by the hydrolysis of adenosinetriphosphoric
acid to contractile proteins. Biofizika 6 no. 1:20-23 '61.
(MIRA 14:2)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(MUSCLES—MOTILITY) (ADENOSINETRIPHOSPHORIC ACID)

WILHELM, I.V.

Dissertation: "Diagnosis of the Watering Time of Cotton Plants with the Aid of the Method of Determining the Mortal Force of Leaves for the Purposes of Improving Irrigation Water Utilization." Jani Tech Sci, Tashkent Inst of Engineers of Irrigation and Mechanization of Agriculture, 20 Apr 54. (Uralia Vostoka, Tashkent, 3 Apr 54)

SK: SK 2.2, 1 Oct 1954

PULATOVA, M.T.

Rectal temperature in gynecological patients during the post-operative period. Trudy AN Tadzh.SSR 32:77-80 '56. (MIRA 9:8)

1. Iz kafedry akusherstva i ginekologii (zav.prof. L.Ye.Girtovoy)
Stalinabadskogo meditsinskogo instituta imeni Abuali ibn Siny
(BODY TEMPERATURE) (GYNECOLOGY, OPERATIVE)

PULATOVA, S., tkachikha; PLAKSINA, N., molal'shchitsa

Women workers are satisfied with the draft law. Sov.
profsoiuzy 7 no.24:42-43 D '59. (MIRA 12:12)

1. Pervaya tkatskaya fabrika Tashkenstkogo tekstil'nogo
kombinata.
(Woman--Employment)

PULATOVA, T.P.

Pharmacological study of *Lagochilus setulosus* Vved. Apt.delo
9 no.2:26-29 Mr-Ap '60. (MIRA 13:6)

1. Iz kafedry farmakognosii (nauchnyy rukovoditel' - prof.
R.L. Khazanovich) Tashkentskogo farmatsevticheskogo instituta.
(LAGOCHILUS)

PULATOVA, T.

Cand Pharm Sci - (diss) "Pharmacognostic study of several types of lagokhilus." Tartu, 1961. 26 pp; (Tartu State Univ); 200 copies; price not given; (KL, 5-61 sup, 208)

PULATOVA, T.P.

Anatomical structure of the grass Lagochilus inebrians Bge.
apt.delo 8 no.4:20-26 Jl-Ag '59. (MIRA 12:10)

1. Iz kafedry farmakognozii (zav. - prof.R.L.Khazanovich)
Tashkentskogo farmatsevticheskogo instituta.
(LAGOCHILUS)

PULAVSKAYA, I. G.
USSR/Electricity - Sparking

FD-2622

Card 1/1 : Pub. 41-8/21

Author : Pulavskaya, I. G. and Stekol'nikov, I. S., Moscow

Title : Investigation of the nature of a long spark. IV. The power and energy of a long spark leader

Periodical : Izv. AN SSSR, Otd. Tekh. Nauk 4, 98-109

Abstract : Measures the power and energy of a leader in a discharge gap of from 1 to 5 meters, under positive and negative potentials of a bar electrode. Describes the experimental setup and methods of registration. Discusses the test results. Criticizes the conclusions and recommendations of some past researchers. Formulae, graphs, table. Four references, 3 USSR.

Institution :

Submitted : December 23, 1954

PULAVSKAYA, I.G.(Moskva); STEPANOVNIKOV, I.S.(Moskva).

Investigating the mechanism of long sparks. Part 5. Izv.AN SSSR.Otd.
tekhn.nauk no.10:64-76 O '56. (MIRA 10:1)
(Electric spark)

SOV/24-58-5-29/31

AUTHORS: Pulavskaya, I. G. and Stekol'nikov, I. S. (Moscow)

TITLE: Simple Method of Conversion Calculation of Volt-Second Characteristics (Prostoy metod perescheta vol'tsekundnykh kharakteristik)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1958, Nr 5, pp 142-143 (USSR)

ABSTRACT: A simple method is described which, with a minimum of calculation, permits obtaining Volt-second characteristics for waves with amplitudes not entirely chopped off (as shown in Fig 1a) from Volt-second characteristics measured for waves with a standard characteristic. This method is based on the assumption that the changes in the discharge gap during the time t_2 (see Fig 1), i.e. the time until the instant of chopping of the wave, consist primarily in reducing the length of the discharge gap by the magnitude ℓ_2 , i.e. by the length of the leader discharge at the instant t_2 . In this case the process of the development of the discharge can be sub-divided into two stages: the first consisting of the development of a discharge in the given gap with a standard wave Card 1/2 and an amplitude U_1 ; the second the development of the

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Simple Method of Conversion Calculation of Volt-Second
Characteristics

discharge in the reduced gap with a standard wave shape and a voltage U_2 . The validity of this assumption can be verified by the known approximate evaluation of the growing of the leader discharge as being represented by the movement of a metallic rod into the gap. Calculations carried out for a wave reproduced in Fig.1a have shown that the difference between the Volt-second characteristics obtained by the conversion calculations differ by no more than 1.5% than for those determined experimentally and only in one point did this difference amount to 3.7%. There are 3 figures and 3 references, 2 of which are Soviet, 1 English.

SUBMITTED: January 3, 1958

Card 2/2

STEKOL'NIKOV, Il'ya Samoilovich. Dlinnaliuchastiye: BRAGO, Ye.N.; PULAVSKAYA,
I.G. VUL, B.M., otv.red.; MINTS, B.V.; red.izd-va; ASTAF'YEVA, G.A.,
tekhn.red.

[Nature of long sparks] Priroda dlinnoi iskry. Moskva, Izd-vo
Akad.nauk SSSR, 1960. 271 p. (MIRA 13:9)

1. Chlen-korrespondent AN SSSR (for Vul).
(Electric spark)

PULAVSKAYA, I.G. (Moskva)

Flashover across a suspension insulator at impulse voltages.
Izv.AN SSSR. Otd. tekhn. nauk Energ. i avtom no.1:24-31 Ja-F '61.
(MIRA 14:3)

(Electric lines--Overhead)
(Electric insulators and insulation)

PULAVSKIY, V.V. [Pulawski, W.] (Vrotslav, Pol'sha)

"Fauna of the U.S.S.R., Hymenoptera, family Scoliidae" by
D.M. Shtenberg. Reviewed by W. Pulawski. Ent. oboz. 42
no. 3:706-707 '63. (MIRA 17:1)

DOBRZANSKI, W. T.; PULAWSKA, E.

UV induction of streptomycin-resistance in Staphylococci (strain
209 P). Bul Ac Pol biol 9 no.1:7-14 '61. (EEAI 10:9)

1. Department of Microbiology and Hygiene, School of Medicine, Warsaw.
Presented by E. Mikulaszek.

(STAPHYLOCOCCUS)

DOBRZANSKI, Wladyslaw T.; PULAWSKA, Ewa

Studies on the role of mutation in erythromycin resistance in
strains of staphylococci belonging to various phage groups.
Med.dosw.mikrob. 12 no.4:331-337 '60.

1. Z Zakladu Mikrobiologii i Higieny A.M. w Warszawie, Kierownik:
prof. dr R.Pakula.

(STAPHYLOCOCCUS pharmacol)
(ERYTHROMYCIN pharmacol)

Ca

Gaseous cementation of steel. N. V. Geveling and
G. E. Pulevskii. U.S.S.R. 67,018, Sept. 30, 1946. The
spent cementing gas (usually CO) is passed from the cemen-
tation chamber to a regenerator, where it is passed over
a hot carburetor, and is then returned to the cementation
chamber. M. Hirsch

Pelawski, B.

Submarine canyons. p. 153.

KOSMOS. SERIA B: PRZYGODA NIEOCZYWIĘNA. (Polskie Towarzystwo Przyjaciółek im. Kopernika) Warszawa, Poland. Vol. 5, no. 2, 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 8, August 1959.
UNCL

PULASKI, M.

Steel tanks with an ebonite coating. p.155.
Vol 8, no. 5, May 1955. "CHEMIK. Katowice, Poland

See: Eastern European Accession. Vol 5, no. 4, April 1956

FULAWSKI, S.

"Let us Remember About Automotive Transportation." p. 321 (CHEMIK.
Vol. 7, No. 11, Nov. 1954; Katowice, Poland.)

So: Monthly List of East European Accessions, (EAL), LC, Vol. 4, No. 4,
April 1955, Uncl..

POLAND/General and Special Zoology. Insects

P-2

Abc Jour: Ref Zool. Biol., No 10, 1953, No 63723

Author : Pulawski Wojciech

Inst : -

Title : A Contribution to the Recognition of the Palearctic Species
of the Genus *Astata* Latr. (Hym., Sphecid.)

Orig Pub : Polskie pismo entomol., 1956, (1957), 26, No 1-26, 81-83

Abstract : A description of the new species, *A. jerichoensis*, from
Palestine and Northern Lebanon, and the new subspecies, *A.*
jerichoensis radoszkowskii, from the former Trans-Carpian
Oblast'. New descriptions are given of five species.

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RECORDED IN THE "CONFIDENTIAL" SECTION OF THIS LOG, (CONT'D) (100)
RECORDED IN THE "CONFIDENTIAL" SECTION OF THIS LOG, (CONT'D) (101)
RECORDED IN THE "CONFIDENTIAL" SECTION OF THIS LOG, (CONT'D) (102)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001343610008-5"

PULAWSKI, Z.

First aid in cases of poisoning by cyanogen compounds. p. 19

OCHRONA PRACY. (Centralna Rada Związków Zawodowych i Centralny Instytut Ochrony Pracy). Warszawa, Poland. Vol. 13, no. 9, Sept. 1958

Monthly List of European Accessions (EEAI) LC, Vol. 8, No. 8 August 1959

Uncl.

PILSKI, Z.

harmful effects of carbon disulfide on the eyes. p.16

Warszaw, Poland. OMEGIA, PPT W; BEZ. IEGEZMENOG I : DZI TA PPA W
Vol.13, no.12, Dec. 1956

Monthly List of East European Accessions Index, (MAAI) LC, Vol.6, no.6
June 1959

Uncl.

CHANDLER, S.

Hygienic importance and measurement of ultraviolet radiation. p. 10.

(ZESIOMA MIESI: DLAZAKCZENSKIE I WIGDZKI PUBLIS. Vol. 12, No. 7, July 1957)
Warszawa, Poland

SC: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 10, October 1957. Uncl.

PULAWSKI, Z.

"Szmyt's Ratownictwo w wypadkach obrazen oczu (First Aid in Cases of Eye Injury); a book review."

p. 25 (Ochrona Pracy; Bezpieczenstwo I Higiena Pracy) Vol. 10, no. 3,
Mar. 1956
Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

HUMBERT, Z.

The toxicology of copper and copper products.

p. 1: (Ochrona Pracy; Bezpieczenstwo I Higiena Pracy. Vol. 10, no. 4, Apr. 1956.
Warszawa, Poland)

Monthly Index of East European Accessions (MEAI) IC. Vol. 7, no. 2,
February 1956

PULAWSKI, Z.

An effort at chemical neutralization of silicosis.

p. 26 (Ochrona Pracy; Bezpieczenstwo I Higiena Pracy) Vol. 12, No. 10, Oct. 1957
Warszawa, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

PULAWSKI, Z.

PULAWSKI, Z. Seasickness as an occupational illness. p. 7. Vol. 10, no. 12. Dec. 1956. OCHRONA PRACY: BEZPIECZENSTWO I HIGIENA PRACY. Warszawa, Poland.

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

1. (b) (1), (c)

Offices in Tokyo in printing. p. 100.
M. 1955; "MONTHLY LIST OF NEW ACCESSIONS", Warsaw, Vol. 4, no. 7, July 1955.

2. Monthly List of New European Acquisitions, (AHL), 1955, Vol. 4, no. 12, Oct. 1955,
p. 102.

4044

628.51.052 : 725.4

Putawski Z. The Relation of Ceiling Height in Industrial Premises to Hygiene Working Conditions.

„Wysokość pomieszczeń przemysłowych a higiena pracy”. Ochrona Pracy, No. 2, 1955, pp. 44—46, 3 figs.

In industrial premises where people work, the air is polluted at a certain level above the floor; it is permeated with steam, carbon dioxide and certain obnoxious components (fatty acids incorporated in perspiration). In premises the height of which does not exceed 2.8 m, this bad air comes so low that it surrounds the upper part of the body of the workers. This has a detrimental effect on health and working capacity. The author is of the opinion that, from the point of view of hygiene, the height of industrial premises should be at least 3.5 m. The layer of bad air remains in such premises above the heads of the workers.

MD

PULAWSKI, Z.

Health of industrial premises and labor hygiene, p. 44. (OCHRONA PRACY, Warszawa,
Vol. 9, no. 2, Feb. 1955.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, June 1955,
Uncle.

PUBLICATIONS I, Z.

"Improvements in the protection of welders at work." p. 172. (Ochrona Pracy;
Bezpieczenstwo I Higiena Pracy, Vol. 8, no. 5, May 53, Krakow Warszawa)

SO: Monthly List of East European Accessions, Vol 3 No 6 Library of Congress Jun 54 Unci

PULAWSKI, Z.

"A new method of determining heat radiation." p. 160. (OCHRONA PRACY; BEZPIECZENSTWO
I HIGIENA PRACY, Vol. 8, no. 12, Dec. 1953, Warszawa, Poland)

SO: Monthly List of East European Accessions, L. C., Vol. 3, No. 5, May 1954, Uncl.

P.T.A.

Mech. & Elec. Engineering

623

621.791.852

Pulawski Z. Atomic-Hydrogen Welding.

"Spawanie atomowo-wodorowe". Bezpieczeństwo i Higiena Pracy
No. 11 - 12, 1950, pp. 20 - 22.2 figs.

The atomic-hydrogen welding method which, owing to its properties, is becoming increasingly popular, requires special security measures such as bright gas-tight equipment, good insulation of electric high tension installations, and the use for workers of protective devices, similar to those used in arc welding. The protective eyeglass of the welder's shield should be highly absorptive. The fact that high resistance by the human organism is essential, necessitates careful selection of workers, especially for welding inside the tanks.

FILLY, G.; MATH'VICS, B.

"The influence of cholesterol on the growth of the bacterial strain
Penicillium chrysogenum Z. 176." p. 65.

BIOLOGIAI KOLEKCIYEN. (Magyar Biologias Tarsasas. Alteljes Biológiai Szakosztály). Budapest, Hungary, Vol. 6, No. 3, 1958.

Monthly list of East European Accessions (EEAI), IC, Vol. 1, No. 3,
August 1959.
Uncla.

PULAY, Gabor, dr.

Lactic acid bacteria and their application in various fields of the food industry. Elelm ipar 16 no.10:295-300 0 '62.

1. Magyar Tejgazdasagi Kiserleti Intezet, Msonmagyarovar.

PULAY, S.; IENTZ, L.

Effect of hexamethylenetetramine on milk acid bacteria. p. 108.
ELEMEZESI IPAR. (mezogazdasagi Ipari Tudomanyos Egyesulet) Budapest.
Vol. 10, no. 4, April 1956.

SOURCE: East European Accessions List (EEAL), Library of Congress
Vol. 5, no. 8, August 1956

JULAY, G.

The Austrian peace treaty, a great work for peace and security. p. 429

Vol. 114, no. 7, July 1955
TERMESZET ES TARSADALOM
Budapest

Source: Monthly list of East European Accessions, (EEAL), LC,
Vol. 5, no. 3, March 1956

PULAY, G.

PULAY, I. Experiments for prevention of swelling in cheese caused by butyric acid bacteria. I. Tests with nisinlike antibiotics. p. 40. Vol. 10, no. 2, Feb. 1956. Budapest, Hungary.

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

Pbel AY, 6.

V 99. Experiments for the prevention of the puffiness of cheeses caused by butyric fermentation. G. Pulay, L. Harinat, I. Németh. *Éksperimentális Tízav*, Vol. 10, 1950, No. 2, pp. 40-43, 4 figs.

The authors investigated the influence of strain-like antibiotic-producing tribes of *Streptococcus lactis* R₁, R₂, 108, 116, 116 N and 123 on bacteria which are either useful or harmful from the standpoint of the milk industry. It has been concluded that the above mentioned tribes greatly inhibit the *Clostridium tyrobutyricum* causing the butyric acid puffiness. On the other hand the useful microbes are slightly or absolutely not affected. Small-scale plant and plant experiments were made with *Ovári*, *Panonia* and *Emmenthal* cheeses. The antibiotic-producing tribes were added as starter to the vat milk. Particular good results were obtained with semi-hard cheeses (*Ovári*). The results were not uniform with hard cheeses requiring longer periods of ripening because in many cases they swelled in spite of the antibiotic. The latter is probably due to the antibiotic only having a bacteriostatic effect on the *Clostridia* which multiply after the rapid disappearance of the antibiotic. For semi-hard cheeses requiring short ripening periods the multiplication-inhibiting effect is sufficient to impede the puffiness. The tribes used in the experiments are very useful in certain cases against puffiness.

PULAY, G.

HUNG.

✓ Production of streptomycin in plate columns. A. Krámlí, A. Kovács, B. Matkovics, M. Natonek, G. Pulay, and P. Turay. *Acta Biol. Acad. Sci. Hung.* 5 (1954) (in German).—The advantages of surface cultures are retained in the app. here described, which consists of a vertical series of Al plates sealed into a glass cylinder and provided with devices for adding media and inoculum, and taking samples rapidly and without risk of contamination. It is claimed that this device permits surface culture of streptomycin (I) to be conducted on an industrial scale as well as for various investigative procedures. In *Streptomyces griseus* cultures, production of I was max. (800-900 units/ml.) in a microclimate of air with 6.25 mm. Hg partial pressure of CO₂. With higher CO₂ partial pressures (9.8 mm., 13.8 mm. Hg), production of I was smaller. Production of I was max. when the oxidation-reduction potential (rH) was at its lowest value. In cultures superinfected by bacteriophage, there occurred a transitory rise in oxidation-reduction potential, which fell when *Streptomyces agalo* prevailed. With a high CO₂ concn. in the atm. over the culture (13.8 mm. Hg), the bacteriophage did not develop. *S. griseus* grew luxuriantly, while the production of I was very small or absent.

G. M. Hocking

PULAY, G.

"Microflora of salami," Elelmészzi Ipar, Budapest, vol. 2, No. 3, Mar. 1954, p. 87.

SO: Eastern European Accessions List, Vol. 3, No. 11, Nov. 1954, L.C.

KRAMLI, A.; PULAY, G.; LANTOS, J.

Method for isolation of steroid-oxidizing microorganisms. Acta
microb. hung. 2 no.1-2:145-149 1954.

1. Medizinisch-Chemisches Institut der Universitat Szeged.

(BACTERIA, metab.

oxidation of steroids, isolation method)

(STEROIDS, metab.

oxidation by bact., isolation method)

(OXIDATION-REDUCTION

oxidation of steroids by bact., isolation method)

L 01048-66

ACCESSION NR: AT5022325

HU/2502/64/041/003/0257/0264

13
2+1

AUTHOR: Pulay, Peter (Pulai, P.) (Budapest); Torok, Ferenc (Terek, F.) (Budapest)

TITLE: Investigations on the structure of monosilanes with the aid of the unicentral molecule orbit technique

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 41, no. 3, 1964, 257-264

TOPIC TAGS: silane, eigenfunction, molecular structure, physical chemistry

Abstract: [German article; authors' English summary, modified] The Eigenfunction corresponding to the basic state of monosilane was established as a determinant developed from functions centered on the silicon atom. The four parameters present in the radial portion of the functions were determined on the basis of the variation principle. The correlation between the calculated and experimentally determined values for the bond energy of SiH₄, its diamagnetic susceptibility, and three normal frequencies was less satisfactory than that between the values for equilibrium nucleus distance, electron distribution, full energy, and normal vibration frequency. "Thanks are expressed to Professor Bela Lengyel and Mr. Ede Kapuy for their encouraging interest." Orig. art. has 8 formulas, 1 graph, and 2 tables.

Card 1/2

L 01046 -66

ACCESSION NR: A^T5022325

ASSOCIATION: Lehrstuhl fur Allgemeine und Anorganische Chemie der L. Eotvos Universitat, Budapest (Department of General and Inorganic Chemistry, L. Eotvos University); Forschungsgruppe fur Anorganische Chemie der Ungarischen Akademie der Wissenschaften, Budapest (Research Group for Inorganic Chemistry at the Hungarian Academy of Sciences)

SUBMITTED: 08Nov63

ENCL: 00

SUB CODE: OC, NP

NO REF SOV: 001

OTHER: 012

JPRS

Card 2/2 AP

L 41687-66 EWP(j) JW/JWD/RM
ACC NR: AT6031104

SOURCE CODE: HU/2502/65/043/002/0123/0129

AUTHOR: Pulay, Peter--Pulai, P.; Torok, Ferenc--Terek, F.

51
B+1

ORG: Institute of General and Inorganic Chemistry, Eotvos Lorand University,
Budapest (Eotvos Lorand Tudomanyegyetem, Altalanos es Szervetlen Kemial Intezet);
Research Group of Inorganic Chemistry, MTA, Budapest (MTA, Szervetlen Kemial Kutato-
csoport)

TITLE: Vibrational spectra of boron compounds containing trimethylsilyl radicals¹

SOURCE: Academia scientiarum Hungaricae. Acta chimica, v. 43, no. 2, 1965, 123-129

TOPIC TAGS: organoboron compound, IR spectrum, Raman spectrum

ABSTRACT: Three compounds have been prepared and their infrared and Raman spectra were determined. The compounds were as follows: $[(\text{CH}_3)_3\text{SiO}]_3\text{B}$, $[(\text{CH}_3)_3\text{SiO}]_2\text{BCl}$ and $(\text{CH}_3)_3\text{SiOBCl}_2$. Approximative calculations were also carried out in order to facilitate the interpretation of the spectra. Orig. art. has: 2 figures and 2 tables. [Based on authors' Eng. abst.] [JPRS: 33,540]

SUB CODE: 07 / SUBM DATE: 17Dec64 / ORIG REF: 001 / OTH REF: 010

Card 1/1 af

0918 2324

PULAY, Peter (Budapest, VIII., Muzeum korut 6-8); TORDY, Ferenc
(Budapest, VIII., Muzeum korut 6-8)

Examination of the structure of monosilicate by means of the
method of unicentral molecular paths. Acta chimica Hung 41
no. 1-2 257-264 '64.

I. Lehrstuhl für Allgemeine und Anorganische Chemie der
Mátyás Rátzus Universität, Budapest und Forschungsgruppe
für Anorganische Chemie der Ungarischen Akademie der
Wissenschaften, Budapest.

ACC NR: AT6034088

SOURCE CODE: HU/2502/65/044/003/0287/0292

AUTHOR: Pulay, Peter--Pulai, P.; Torok, Ferenc--Terek, F.

32

B+1

ORG: Research Group of Inorganic Chemistry, Hungarian Academy of Sciences (Magyar Tudomanyos Akademia, Szervetlen Kemial Kutatocsoport); Department of General and Inorganic Chemistry, Eotvos Lorand University, Budapest (Eotvos Lorand Tudomanyegyetem, Altalanos es Szervetlen Kemial Tanszek)

TITLE: Expression of F matrices by parameters, I.

SOURCE: Acta chimica academiae scientiarum Hungaricae, v. 44, no. 3, 1965, 287-292

TOPIC TAGS: eigenvalue, mathematic matrix

ABSTRACT: Real, positive, definite F matrices, the products of which have (experimentally determined) eigenvalues according to the requirements of G, Gf, n, were expressed as functions having $n(n-1)/2$ parameters. Some iterative methods are given which enable the building up of F matrices which satisfy certain required conditions. Orig. art. has: 7 formulas. [Based on authors' Eng. abst.]
[JPRS: 33,540]

SUB CODE: 12 / SUBM DATE: 27Oct64 / ORIG REF: 001 / OTH REF: 007

Cord 1/1

0920 2743

L 00708-67

ACC NR: AT6035471

SOURCE CODE: HU/2502/66/047/003/0273/0279

32

B+1

PULAY, Peter, and TOROK, Ferenc, of the Institute for General and Inorganic Chemistry at L. Eotvos University [original-language version not given] in Budapest.

TITLE: "Parameter Form of Matrix F, Part 2: Investigation of the Assignment with the Aid of the Parameter Form"

Budapest, Acta Chimica Academiae Scientiarum Hungaricae, Vol 47, No 3,
7 Apr 1966, pp 273-279.

Abstract: [English article; Part 1 of this series was published Ibid., Vol 44, 1965, p 287] The possibilities for defining the matrix F, giving the closest assignment between internal and normal coordinates, were studied. With the aid of Matrix U (an orthogonal parameter matrix described in Part 1) equalling the unit matrix, one obtains matrix F, assuring a close, unambiguous connection between the internal and normal coordinates. Where it is possible to give a definite assignment, the elements of F, are almost equal to the force constants of the most dependable hybrid orbital force field. Orig. art. has: 6 formulas and 2 tables. [JPRS: 36464]

TOPIC TAGS: mathematic matrix, parameter, molecular orbital, molecular physics

SUB CODE: 12, 20 / SUBM DATE: 14Jul65 / ORIG REF: 001 / OTH REF: 008

Card 1/1 vlr

0921 2189

Filing (77), 106.

AID P - 1649

Subject : USSR/Aeronautics

Card 1/1 Pub. 58 - 8/19

Author : Pulayeva, M., and Kuzakov, M.

Title : Build a mass-produced metal glider (Article in the series:
"What mass-produced glider do we need?")

Periodical : Kryl. rod., 3, 8, Mr 1955

Abstract : The authors suggest a performance glider for which
they give the principal characteristics. They state
that only a metal mass-produced glider could meet
these requirements.

Institution: None

Submitted : No date

PUL'BERE, I.

Ways of making state-farm work healthier and easier. Okh.truda
i sots.strakh. no.1:5-8 Ja '60. (MIRA 13:5)

1. Predsedatel' rabochkoma sovkhoza "Gratiyeshty."
(Moldavia--State farms)

PULCZYNSKI, A.

PULCZYNSKI, A. Comparison of some of the methods of determining the amount
of glycerin by the fermentation of sulfite. p. 459. Vol. 10, no. 11
Nov. 1956
PRZENSL SPOZYWOZY, Warszawa Poland

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4, April 1957

PULCZYNSKI, J., mgr inz.

Application of special steel and nonferrous metals in the construction of chemical apparatus. Hutnik P 31 no.5:176-177 My '64.

PILCZYNSKI, Janusz, mgr.inz.

Grates made of plastics as a modern filler for stack cooling.
Przegl techn no.14:11 Ap '62.

1. Katedra Aparatury Przemyslowej, Politechnika, Krakow

HUCZYNSKI, Janusz, mgr inz.

Anticorrosive tubes made of plastics. Gaz woda techn sanit 37
no.93300-301 S 163.

I. Department of Industrial Apparatus, Technical University,
Krakow.

PULCZYNSKI, Janusz, mgr inz.

Low pressure polyethylene as highly resistant construction material
for industrial apparatus. Przegl techn 84 no.4:8 27 Ja '63.

1. Katedra Aparatury Przemyslowej, Politechnika, Krakow.

PULCZINSKI, Janusz, mgr inż.

Application of hard polyvinyl chloride to the production of
parts of industrial apparatus. Przegl techn 85 no.9*5
1 Mr'64.

1. Politechnika, Krakow.

PULCZYNSKI, Janusz, mgr inz.

Methods of shaping elements of industrial apparatus from low-pressure polyethylene. Chemik 15 no.1:399-401 N '62.

1. Katedra Aparatury Przemysłowej, Politechnika, Krakow.

PULCZYNSKI, Janusz, mgr inz.

New plastic, heat resistant up to 10 000° C. Przegl techn
84 no.38:3 22 S'63

1. Katedra Aparatury Przemysłowej, Politechnika, Krakow.

PULCZYNSKI, Janusz, mgr inz.

Grates stamped from plastics being used as modern fillers of
cooling towers. Przegl techn no.14:11 8 Ap '62.

1. Katedra Aparatury Przemyslowej, Politechnika, Krakow.

POLAND/Chemical Technology - Chemical Products and Their
Applications - Wood Processing Industry.
Hydrolytic Industry.

H.

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 37627
Author : Polak, F., Pulczynski, J.A.
Inst : -
Title : Comparison of Some Glycerol Determination Methods
during Sulfide-Alcohol Fermentation.

Orig Pub : Przem. Spozywczy, 1956, 10, No 11, 459-460

Abstract : Given are results of glycerol analysis during the fer-
mentation of refined sugar solutions at 25-38°C and
32-35°C. Iodometric analysis was found to yield the
most accurate results. In order to assume the accuracy
of results at least two analytical methods should be
used. Comparative results may be obtained by a modified
Fleury-Fatoma iodometeric analysis and by the sulfide

Card 1/2

MILIC, J.

"Iunin's Improved Methods in Electric Traction." p. 28 (Zeleznice, Vol. 3, no. 2, 1953, Praha)

SC: Monthly List of East European Accessions, Vol. 3, no. 2, Library of Congress, Feb. 1954, Uncl.

ELTC, J.

"Good preparations for electrification, a guarantee of success. p.130"
-m-. Our first railroad constructor.p.132. For perfect cleanliness on
our railroads,p. 133.. ZELFZNICE, Vol.3, No.6, Feb. 1953. Czechoslovakia.

SO: Monthly List of East European Accessions, L.C. Vol.2, No.11, Nov. 1953.
Uncl.

1958, 11.

"The Opatovice horst as a source of ethnologic research."

p. 27 (Cechy 11, Vol. 46, no. 3, 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (SEAL) LC, Vol. 7, no. 9,
September 1958

PUIEC, M.

"How the Prague legends are living"

Cesky Lid. Praha, Czechoslovakia. Vol. 46, no. 2, 1959

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclass

(N)

SOURCE CODE: UR/0413/66/000/013/0083/0084

Author(s): Polyakov, N. I.; Pulenets, M. L.; Kryukov, A. N.; Korsakov, N. S.;
Danilevich, Yu. P.; Felisov, B. V.; Gritsay, N. I.

ORG: None

TITLE: A hydrological unit for operations under ice. Class 42, No. 183412 [announced by the Arctic and Antarctic Scientific Research Institute (Arkticheskiy i Antarkticheskiy nauchno-issledovatel'skiy institut)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966, 83-84

TOPIC TAGS: sea ice, hydrologic instrument, marine equipment

ABSTRACT: This Author's Certificate introduces: 1. A hydrologic unit for operations under ice. The installation contains hydroacoustic transmitting equipment mounted on a ship and a submarine unit consisting of hydroacoustic receiving equipment placed within an instrument buoy connected to an anchor cable which holds the automatic recording equipment at the level being studied. To improve reliability in using this floating equipment under icy conditions, the hydroacoustic transmitting apparatus is equipped with a modulator and a coding unit connected in the pulse generator circuit, while the receiving equipment has two code frequency filters and a logical coincidence circuit connected to the actuating mechanism which releases the buoy. 2. A

filter, coincidence circuit, power mechanism; 24-power automatic recording instr.

SUB CODE: 13, 08, 09 / SUBM DATE:

UDC: 534.632

AUTHOR: Pul'er, Yu.M., Candidate of Technical Sciences. 397

TITLE: Contactless tacho-generators with rectangular output voltage wave form. (Beskontaknye takhogeneratory s pryamougol'noy formoy krivoy vkhodnogo napryayazheniya.)

PERIODICAL: "Vestnik Elektro promyshlennosti" (Journal of the Electrical Industry) 1957, Vol. 28, No. 4, pp. 60 - 63 (U.S.S.R.)

ABSTRACT: This article considers tacho-generators which generate a direct current proportional to the instantaneous speed of rotation of the shaft over a limited range of angle or rotation reaching a value of $\pm 180^\circ$. Such tacho-generators are used to obtain negative feed back from shaft displacement in various electrical, electro-hydraulic and other servo-drive. They may also be used in computer devices as differentiating elements to produce an electrical signal of the speed of slowly changing mechanical displacements with a limited range of alteration.

Contactless tacho-generators are simpler and more reliable than commutator type direct current commutator type tacho-generators. They also may be used in the generator condition of continuous rotation as contactless synchronous generators of rectangular wave form voltage for different automatic devices. Electrical machine type tacho-generators are made with salient poles and a permanent magnet rotor or with a

Contactless tacho-generators with rectangular output voltage
wave form. (Cont.)³⁹⁷

designs of the electrical machine type with electro-magnetic excitation or with permanent magnets has a greater range of angle of rotation in which the generator voltage is proportional to the angle of velocity of the rotor. In steady conditions the generator gives a linear variation of output voltage as a function of speed independently of the load, i.e. the load does not cause non-linear changes in the output voltage with rotor speed but only reduces the magnitude of the output voltage with speed. The generator can be used to produce voltages with positive and negative half-period rectangular wave form with continuous rotation of the rotor. In this case the voltage amplitude increases proportionately to the angular velocity of the rotor at all loads.

9 figures, 2 literature references (1 Russian).

"... .

29046 V sor'be na dosrochnoe vyplachivaniye pyatiletki (na zavodakh Glaytorfam), 1949.

2: Letopisi Zhurnal'nykh Statey, Vol. 39, Moskva, 1949

PULEV, P. (Kuybyshev)

This was done by volunteers. Sov. profsoiuzy 20 no.4:19
F '64. (MIRA 17:3)

1. Neshtatnyy korrespondent zhurnala "Sovetskiye profsoyuzy".

MILAVSKI, V.

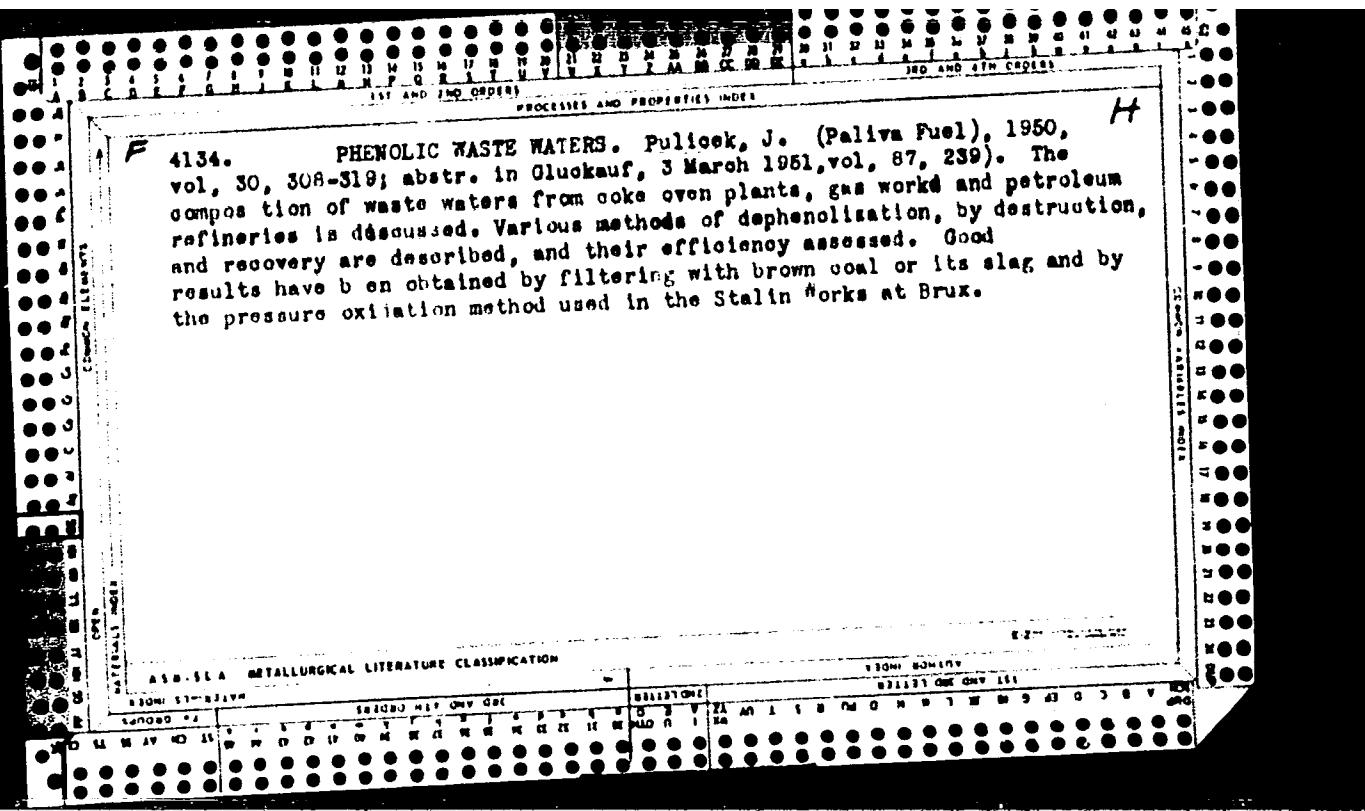
With the people. p. 35.
POLITICAL DOCUMENTS, Series, Vol. II, no. 4, Mar. 1956.

CC: Monthly List of East European Acquisitions, (EEAL), EC, Vol. 5, No. 6, June 1956, Uncl.

CA

15A

Effect of dichlorodiphenyltrichloroethane preparations on insects and warm-blooded animals. P. Pulewka.
Prak. Ljien. Techn. Biol. Dergisi 7, No. 1, 5-38 (1947).
The effect of Neocid powder, contg. 5% of DDT dield. with talcum, was tested by putting insects into Petri dishes contg. 10 mg. of Neocid. Death occurred in *Culex* after 3-4 hrs., cockroaches 2-4 days, common flies 4-5 hrs., bed bugs 1-4 days, body lice 1-4 days. If the insects were kept in the Petri dishes for 1 min. only, almost the same results were obtained, because DDT particles adhered to the surface of the animals. Filter paper impregnated with a fine suspension of DDT is much less effective against insects, because less of the DDT particles adhere to the surface of the animals. Mice are poisoned lethally by 0.1 g. of DDT powder on their skin or their food. Mice are killed, by 6-9 mg. (per 20 g. of animal) of pure DDT given orally, while 3-5 mg. is toxic, and 1 mg. without effect. DDT sticks very firmly to linen impregnated with DDT suspension and is removed with difficulty by washing in luke-warm soap soln. Felix Haurowitz



PULIEV, Khr. N.

Infrared spectra of svidineite and richterite, two alkali amphiboles.
Spis Bulg geol druzh 25 no.2:192-196 '64.

1. Administration of Geologic Research.

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001343610008-5

PULIEV, Khristo T.

Paleomagnetism, a source of information on the past of the earth.
Priroda Bulg 13 no.5:64-57 S-0 '64.

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001343610008-5"